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In the Claims:

1. (Currently Amended) A method for reducing lung volume in a patient, the method

comprising:

(a) advancing a bronchoscope into a region of a lung targeted for reduction in a patient;

and

(b) introducing material through the bronchoscope into a diseased alveolar region within

the targeted region to reduce the volume of the targeted region within the patient's lung, wherein

said material induces collapse of the targeted region; promotes adhesion between one collapsed

portion of the lung and another; and promotes fibrosis in or around the collapsed region of the

<u>lung</u>.

2. (Canceled)

3. (Currently Amended) The method of claim [[2]] 1, wherein the material comprises fibrin

or fibrinogen.

4. (Original) The method of claim 3, wherein the material further comprises a polypeptide

growth factor.

5. (Original) The method of claim 4, wherein the polypeptide growth factor is a fibroblast

growth factor or a transforming growth factor beta-like (TGF β-like) polypeptide.

6. (Original) The method of claim 3, wherein the material further comprises a component

of the extracellular matrix (ECM) or an ECM-like substance.

7. (Previously Presented) The method of claim 6, wherein the component of the ECM

comprises hyaluronic acid (HA), chrondroitin sulfate (CS), or fibronectin (Fn).

8. (Original) The method of claim 6, wherein the ECM-like substance comprises poly-L-

lysine or a peptide consisting of proline and hydroxyproline.

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- 9. (Original) The method of claim 3, wherein the material further comprises an agent that causes vasoconstriction.
- 10. (Original) The method of claim 9, wherein the agent that causes vasoconstriction is an endothelin, epinephrine, or norepinephrine.
- 11. (Original) The method of claim 3, wherein the material further comprises a proapoptotic agent.
- 12. (Previously Presented) The method of claim 11, wherein the pro-apoptotic agent is sphingomyelin, Bax, Bid, Bik, Bad, Bim, caspase-3, caspase-8, caspase-9, or annexin V.
- 13. (Previously Presented) The method of claim 1, further comprising blocking air flow into or out of the region.
- 14. (Previously Presented) A method for performing lung volume reduction, the method comprising introducing material through an airway of a patient into a diseased alveolar region of the patient's lung to:
 - (a) collapse the diseased alveolar region;
 - (b) adhere one portion of the collapsed region to another; and
 - (c) promoting fibrosis in or around the collapsed region of the lung.
- 15. (Original) The method of claim 14, wherein the method is performed using a bronchoscope.
- 16. (Previously Presented) The method of claim 14, wherein collapse of the diseased alveolar region of the lung is achieved by administering a substance that increases the surface tension of fluids lining the alveoli in the targeted region.
- 17. (Original) The method of claim 16, wherein the substance is fibringen.
- 18. (Original) The method of claim 16, wherein the substance is fibrin.

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- 19. (Previously Presented) The method of claim14, further comprising blocking air flow into or out of the targeted region.
- 20. (Original) The method of claim 14, wherein adhering one portion of the collapsed region to another is achieved by administering a solution comprising fibrinogen and a fibrinogen activator.
- 21. (Original) The method of claim 20, wherein the fibrinogen activator is thrombin.
- 22. (Original) The method of claim 21, wherein the fibringen comprises 3-12% fibringen.
- 23. (Original) The method of claim 22, wherein the fibrinogen comprises approximately 10% fibrinogen.
- 24. (Original) The method of claim 14, wherein adhering one portion of the collapsed region to another is achieved by administering fibrin.
- 25. (Original) The method of claim 14, wherein promoting fibrosis in or around the collapsed region of the lung is achieved by administering a polypeptide growth factor.
- 26. (Original) The method of claim 25, wherein the polypeptide growth factor is a fibroblast growth factor (FGF).
- 27. (Original) The method of claim 26, wherein the FGF is basic fibroblast growth factor (bFGF).
- 28. (Original) The method of claim 25, wherein the polypeptide growth factor is transforming growth factor-beta (TGF-β).
- 29. (Original) The method of claim 20, further comprising administration of factor XIIIa transglutaminase.
- 30. (Original) The method of claim 24, further comprising administration of factor XIIIa transglutaminase.

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31. (Original) The method of claim 14, further comprising reducing the risk of infection by

administration of an antibiotic.

32. (Original) The method of claim 31, wherein the antibiotic is administered together with

fibrinogen, fibrin, or a fibrinogen activator.

33. (Original) The method of claim 14, further comprising, prior to collapsing a region of the

lung, inflating the region with absorbable gas.

34. (Original) The method of claim 33, wherein the absorbable gas is at least 90% oxygen.

Claims 35-54 (Canceled)

55. (Previously Presented) A method for reducing lung volume in a patient, the method

comprising:

introducing a material into a diseased alveolar region of a patient's lung; and collapsing

the diseased alveolar region to reduce the volume of the lung, wherein the material comprises an

anti-surfactant, or an adhesive, or a combination thereof.

56. (Previously Presented) The method of claim 55, blocking air flow into and out of the

target region using a balloon catheter or other method or device.

57. (Previously Presented) The method of claim 55, further comprising reducing airflow into

and out of the diseased alveolar region.

58. (Previously Presented) The method of claim 55, wherein the material is introduced

through a trachea or a smaller airway of a patient.

59. (Canceled)

60. (Previously Presented) A method of preparing a diseased region of a lung for volume

reduction, the method comprising introducing material into a diseased alveolar region of a lung,

wherein the material is introduced via a bronchoscope, and wherein the material comprises an

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anti-surfactant, or an adhesive, or another biocompatible reagent, or a combination of two or more thereof.

- 61. (Previously Presented) A method for promoting stable lung collapse, the method comprising introducing a material into a diseased alveolar region of a lung and blocking air flow into and out of a target region of the lung comprising the diseased alveolar region under conditions to promote collapse and/or fibrosis or scarring of the diseased alveolar region.
- 62. (Previously Presented) A method of treating emphysema, the method comprising introducing material into a diseased alveolar region of a lung under conditions to promote collapse and/or fibrosis or scarring within the diseased alveolar region, wherein the material is introduced non-surgically.
- 63. (Previously Presented) The method of claim 58, wherein the material comprises an antisurfactant, or an adhesive, or a combination thereof.
- 64. (Canceled)
- 65. (Previously Presented) The method of claim 61, wherein the material promotes fibrosis or scarring and prevents subsequent partial or complete re-expansion of the target region.
- 66. (Previously Presented) The method of claim 61, wherein the target region comprises a diseased alveolar region, at least one lung lobe, at least one branch of the bronchial tree, at least one or more bronchi and/or bronchioles, a lung subsegment, an alveolus, a small airway in the lung, or two or more thereof.
- 67. (Previously Presented) The method of claim 60, wherein the material is removed by suction.
- 68. (Previously Presented) The method of claim 61, wherein fibrosis or scarring is promoted by introducing a composition comprising at least one growth factor into the diseased alveolar region of the lung.

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69. (Previously Presented) The method of claim 57, comprising occluding a trachea, bronchius, bronchiole or other airway of the lung.

- 70. (Currently Amended) The method of claim 55, further comprising occluding the diseased alveolar region and filling the occluded region with an absorbable gas prior to collapsing the region.
- 71. (Previously Presented) The method of claim 68, wherein the composition is introduced through a trachea or a smaller airway of a patient.
- 72. (Currently Amended) The method of claim 55, wherein the material comprises one or more agents selected from the group consisting of an agent that increases the surface tension of fluids lining the alveoli, an agent [[the]] that adheres one portion of a tissue to another, an agent that promotes chemotaxis, an agent that promotes collagen deposition, an agent that causes inflammation, an ECM-like agent, a pro-fibrotic agent, an agent that causes vasoconstriction, an agent that modulates endothelial cell response, a polymerizing agent, a pro-apoptotic agent, an agent that promotes fibrosis or scarring, other agents that act mechanically and/or biologically, and other biocompatible reagents.
- 73. (Previously Presented) The method of claim 61, wherein first and second components of a glue are separately applied to portions of the diseased alveolar lung region, and wherein the first and second components of the glue promote adhesion between the portions of the diseased alveolar lung region.